

Installation Instructions
IFPS10
May 6, 2002

Installation Instructions for IFPS10

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PART 0: Prerequisite Requirements

Part 0 represents the portion of the IFPS10 install that can be done/verified prior to actually starting the install. Please read over this section and complete the items listed below. You should not continue with the IFPS10 install until all of these items have been satisfied.

If you are a RAP site, please follow the directions listed under the “RAP Sites (ONLY)” tag. If you are not a RAP site, please follow the instructions under these tags “Non-RAP WFOs”. All of the WFOs need to follow the directions under the “All WFOs” tag. Please refer to Attachment 1 for a list of RAP sites.

1. AWIPS Version Installed

a. RAP Sites (ONLY) –

- i. AWIPS **R5.1.2.4** MUST be installed.
 - (1) To check, type the following command:
`> cat /awips/Release_ID`
If the result does not match 5.1.2.4, please install the necessary maintenance release(s) before continuing with the IFPS10 install.

b. Non-RAP WFOs –

- i. At least AWIPS **R5.2.1** MUST be installed
 - (1) To check, type the following command:
`> cat /awips/Release_ID`
If the result does not match at least R5.2.1, please install R5.2.1 before continuing with the IFPS10 install.

2. Backup Copies of Important IFPS Files

a. All WFOs –

- i. See Attachment 2 for the list of data files, scripts, and database tables that are replaced or merged during the IFPS10 upgrade.
- ii. Key files that MDL suggests should be backed up prior to starting the IFPS10 upgrade:
 - (1) Data files and Scripts
 - (a) `/awips/adapt/ifps/xdefaults/Igr_ccc`
 - (b) `/awips/adapt/ifps/localbin/ifps-ccc.env`
 - (c) `/awips/adapt/ifps/data/mask.00`
 - (d) `/awips/adapt/ifps/data/mask.12`
 - (e) `/awips/adapt/ifps/data/public_checks.ccc`
 - (2) ifps_ccc Database Tables
 - (a) `cntrl_const`
 - (b) `geo_groups_descr`
 - (c) `period_layout`

PART 1: Pre-install Preparations

Part 1 represents the steps necessary to prepare the system for the IFPS10 install. Part 1 through Part 3 within the install instructions need to be completed on the same day. It is estimated that the Part 1 and Part 2 will take approximately four hours to complete. The time required for Part 3 depends on the amount of time it will take your site to verify the IFPS10 upgrade.

NOTE: Those RAP sites who have not previously installed IFPS software to support the NDFD test will lose your gridded database during this upgrade. Attachment 1 indicates those sites which did not previously have IFPS test software loaded.

If you are a RAP site, please follow the directions listed under the “RAP Sites (ONLY)” tag. If you are not a RAP site, please follow the instructions under these tags “Non-RAP WFOs”. All of the WFOs need to follow the directions under the “All WFOs” tag. Please refer to Attachment 1 for a list of RAP sites.

1. **Look for Addenda to the IFPS10 Install Instructions**
 - a. All WFOs –
 - i. Before starting with the IFPS10 install, please review any updated Install Instructions and/or Lessons Learned at the following URL:
<http://www.nws.noaa.gov/mdl/icwf/IFPS10/IFPS10.html>
2. **Notify the NCF**
 - a. All WFOs –
 - i. Before starting the IFPS10 install, please notify the NCF so that MDL can be ready to provide assistance if needed.
3. **Make a snapshot of IFPS (just in case)**
 - a. RAP Sites (ONLY) –
 - i. In order to be able to complete a deinstall if it is necessary, the RAP sites need to perform the following instructions in order to make snapshots of the following directories:
 /awips/adapt/ifps
 /awips/GFESuite
 - ii. Stop the IFPS Servers and crons. These commands should be executed as user “ifps” or “awipsusr” on the system indicated.
 - (1) Disable the IFPS servers
 - (a) On as1 as ifps
 - (i) Check for the Inter-site coordination server
 `>ps -ef | grep isc`
 - (ii) If the process is listed, then stop the server
 `>kill <process id>`
 As identified by the ps command above.
 - (b) On lx1 as ifps or awipsusr

- (i) Determine which user “owns” the ifpServer process
`>ps -ef | grep ifpServer`
 - (ii) As the user that owns the ifpServer, use the stopIFPServer command to stop the ifpServer
`>cd /awips/GFESuite/bin`
`>./stopIFPServer`
 - (iii) Check for the IFPS Servers (ifpServer, ifpServerWatcher, sliderParameterServer, and sirssrv)
`>ps -ef | grep ifps`
 - (iv) If any of the above processes are listed, then stop the server(s)
`>kill <process ids>`
- Note:** A “kill -9” will need to be used for the sliderParameterServer
- (2) Disable the IFPS cron files
 - (a) On ds1 as ifps
 - (i) Remove the IFPS cron
`>crontab -r`
 - (b) On lx1 as ifps
 - (i) Remove the IFPS cron
`>crontab -r`
- iii. Verify that no one is using IFPS or WWA. This needs to be verified on each of the HP and Linux workstations.
- iv. As well as, make a backup copy of the ifps_ccc database. The following commands need to be executed as user “ifps” on the DS. Each command must complete before the next is typed. Please complete each step prior to continuing with the next step.
 - (1) On ds1 as ifps
 - `>cd /awips/adapt/ifps`
 - `>. ./localbin/ifps-ccc.env`
 - `>cd database`
 - `>dbexport ifps_ccc`
 - `>cd /awips/adapt/ifps`
 - `>tar cvf /data/adapt/ifps/ifps512.tar *`
 - `>gzip /data/adapt/ifps/ifps512.tar`
 - `>cd /awips/adapt/GFESuite`
 - `>tar cvf /data/adapt/ifps/GFESuite512.tar *`
 - `>gzip /data/adapt/ifps/GFESuite512.tar`

NOTE:

It is possible that even if the step to prevent someone from accessing the ifps_ccc database that the export command will fail. See the Lessons Learned Page at
<http://www.nws.noaa.gov/mdl/icwf/IFPS10/IFPS10.html>

for details on how to solve this problem.

4. **Make a copy of the WWA executables**

a. RAP Sites (ONLY) –

- i. The IFPS part of R5.2.1 will remove the WWA executables and scripts figuring on the rest of R5.2.1 to restore them. In this situation, the WWA part of R5.2.1 has not been ran so the system is left with no WWA executables and scripts. As a result, a tar file containing this information needs to be saved. This tar file will be used after IFPS10 has been installed to restore the WWA executables
 - (1) Create the wwa_save.tar file


```
>cd /awips/adapt/ifps/bin
>tar cvf /data/adapt/ifps/wwa_save.tar \
  ingest_saw ingest_sev ingest_wcl ingest_wou \
  ingest_saw.bat ingest_sev.bat ingest_wcl.bat \
  ingest_wou.bat wwa wwa.bat wwa_nwr wwa_setup \
  wwa_nwr_push wwa_duplicates.py \
  wwa_nwr_short_fuse.pl wwainj wwarcmd mk_brt \
  mk_brt.bat
```
 - (2) Verify that these 19 files are listed within the wwa_save.tar file


```
>tar tvf /data/adapt/ifps/wwa_save.tar
```

 If the 19 files are not listed, then remove this wwa_save.tar file and repeat step 3.a.i.(1).
 - (3) Compress this file once it is verified


```
>gzip /data/adapt/ifps/wwa_save.tar
```

5. **Prepare for Install the IFPS Part of R5.2.1**

a. RAP Sites (ONLY) –

- i. Since R5.1.2.4 has been installed, it is necessary to remove one of the entries in the cntrl_const table in order to avoid a constraint error during the R5.2.1 upgrade. This can be done one of two ways:
 - (1) Download two scripts: rmv_dup_wind_entry.sql and rmv_mexwx_dup_entries.sql from NOAA1. These steps can also be found on the Lessons Learned Page at <http://www.nws.noaa.gov/mdl/icwf/IFPS10/IFPS10.html>
 - (a) At a workstation, open a telnet window and log in as awipsusr. Log into ds1 as root and start ftp session with NOAA1.


```
>rlogin ds1 -l root
>cd /awips/adapt/ifps
>ftp 165.92.25.15
login= ftp and password = 4Awips!
>cd /data/local/patch10.1
```
 - (b) Get the "rmv_dup_wind_entry.sql" and "rmv_mexwx_dup_entries.sql" files by typing:


```
>binary
>hash
>mget rmv_*
```

- ```
>bye
```
- (c) Change the permissions on the script
- ```
>chmod 777 rmv_dup_wind_entry.sql
>chmod 777 rmv_mexwx_dup_entries.sql
```
- (d) As user “ifps” run this script
- ```
>su - ifps
><enter password for ifps>
>./rmv_dup_wind_entry.sql -s ccc
 where ccc is the 3-letter site identification
>./rmv_mexwx_dup_entries.sql -s ccc
 where ccc is the 3-letter site identification
>rm rmv_dup_wind_entry.sql
>rm rmv_mexwx_dup_entries.sql
>exit
```
- (2) If you use option (a) to remove this entry, continue with the next step. Otherwise, use dbaccess to remove this entry from the cntrl\_const table. Here are the steps necessary to fix the problem with this option:
- (a) Use dbaccess as user “ifps”
- ```
>su - ifps
><enter password for ifps>
>. /awips/adapt/ifps/localbin/ifps-ccc.env
    where ccc is the 3-letter site identification
```
- (b) If your **site is NOT a former NDFD site**, then enter the SQL necessary to remove this entry. Otherwise, skip to (c).
- ```
>dbaccess ifps_ccc
 where ccc is the 3-letter site identification
>Select [Q]uery Language
>Select [N]ew
>Type SQL
 DELETE FROM cntrl_const WHERE
 item="wind_control" and
 member=47;
 DELETE FROM cntrl_const WHERE
 prod_id="MEXWX";
 DELETE FROM cntrl_const WHERE
 item = 'city_header'
 AND member = -1;
 DELETE FROM cntrl_const WHERE
 item = 'precip_cntrl'
 AND member = 66;
>Select <esc>
>Select [R]un
>Select [E]xit, twice
>exit
```
- (c) If your **site is a former NDFD site**, then enter the SQL necessary to remove this entry.
- ```
>dbaccess ifpx_ccc
```

```

        where ccc is the 3-letter site identification
>Select [Q]uery Language
>Select [N]ew
>Type SQL
        DELETE FROM cntrl_const WHERE
            item="wind_control" and
            member=47;
        DELETE FROM cntrl_const WHERE
            prod_id="MEXWX";
        DELETE FROM cntrl_const WHERE
            item = 'city_header'
            AND member = -1;
        DELETE FROM cntrl_const WHERE
            item = 'precip_cntrl'
            AND member = 66;
        DELETE FROM maps WHERE
            map_name IN ('hrap_pts_to_grb',
            'qpf_pts_to_grb');
>Select <esc>
>Select [R]un
>Select [E]xit, twice
>exit

```

6. Install the IFPS Part of R5.2.1

a. RAP Sites (ONLY) –

- i. Verify that IFPS and WWA are **NOT** running on any workstation in the office. This includes HP as well as Linux workstations.
- ii. Install the IFPS portion of R5.2.1
 - (1) Insert the CD labeled “IFPS10” into the CD drive on ds1
 - (2) Log into a workstation as root, then rlogin into the ds


```
>rlogin ds1
```
 - (3) Start two window. One to run the commands and the other to stop and view the install output files.
 - (4) In the first window, mount the CD drive


```
>For K class server:
>mount /dev/dsk/c3t2d0 /cdrom
>For D class server:
>mount /dev/dsk/c1t2d0 /cdrom
>cd /cdrom
```

(NOTE: If you can not remember which class server you have, then type: model)
 - (5) In the first window, verify the permissions on two directories.
 - (a) Look at the permissions of /data/local. The permissions on the directory should be ‘rwxrwxrwx’.


```
>ll /data
```

If the permissions of the local directory are not ‘rwxrwxrwx’, then change the permissions

```
>chmod 777 /data/local
```
 - (b) Look at the permissions of /data/adapt/ifps. The

permissions on the directory should be 'rwxrwxrwx'.

```
>ll /data/adapt
```

If the permissions of the ifps directory are not

'rwxrwxrwx', then change the permissions

```
>chmod -R 777 /data/adapt/ifps
```

- (6) In the first window, start the script to log install progress

```
>script -a /home/ncfuser/IFPS521install.out
```
- (7) In the first window, run "installIFPS521". Wait until this command finishes before proceeding. Don't use a <Ctrl>C unless directed by NCF or MDL personal. This process may take a while to complete.

```
>./installIFPS5.2.1
```
- (8) Wait until the install script is finished, then bring up a second window and stop the script command.

```
>ps -ef | grep IFPS521install
```

```
>kill <process id>
```

where process id is shown in the 'ps -ef' command
- (9) In the second window, review the R5.2.1 IFPS install log

```
>cd /home/ncfuser
```

```
>more IFPS521install.out
```

Look for any errors in the log file. If you have a questions about anything, give the NCF a call.

7. Prepare AWIPS to install IFPS10

a. RAP Sites (ONLY) –

- i. MDL has written a script called "prepIFPS10". This script sets up AWIPS in order for IFPS10 to be able to be installed and executed in a R5.1.2 environment. The prepIFPS10 script does different thing depending on your RAP site type. If your are a RAP site that has previously install the IFPS code to support the NDFD test, then this script synchronize the ifpx_ccc database with the ifps_ccc database. Thus preserving any changes that were made during this test. The script will also remove the alphabin directory. At the other RAP sites (i.e., those that have not previously install a test version IFPS), the script completes the system changes necessary for IFPS to run. This includes mounting directories on the lx1 and lx2, updating the files so that the HPs trust the linux hosts, etc. In this situation, there is a AS part to the prepIFPS10 that sets up the new MOS decoders (e.g., AVN MOS).
- ii. **All RAP Sites:** Steps to run the DS portion of "prepIFPS10". Please let each step run to completion before starting the next step.
 - (1) Verify that the IFPS10 CD is still in the drive and that the CD drive is mounted.

```
>cd /cdrom
```

```
>ls
```

Verify – that prepIFPS10 is included in this listing. If it is not

repeat 4.a.ii.4 above.

- (2) In the first window, start the script to log install progress
`>script -a /home/ncfuser/prepIFPS10install.out`
- (3) In the first window, run "prepIFPS10"
`>./prepIFPS10`
- (4) Wait until the install script is finished, then bring up a second window and stop the script command.
`>ps -ef | grep prepIFPS`
`>kill <process id>`
 where process id is shown in the 'ps -ef' command
- (5) In the second window, review the Prep IFPS10 log
`>cd /home/ncfuser`
`>more prepIFPS10install.out`
 Look for any errors in the log file. If you have a questions about anything, give the NCF a call.

iii. **Only RAP sites without a previous test version of IFPS installed:**

Please complete the following steps on as1. Please let each step run to completion before starting the next step.

- (1) In the first window, log into the as1 as fxa
`>rlogin as1 -l fxa`
- (2) In the first window, verify the permissions on a couple of applications
`>ll /awips/fxa/bin/DecoderMos`
`>ll /awips/fxa/bin/DecoderMRF`
 If the permissions are not 'rwxrwxrwx', then change them
`>chmod 777 /awips/fxa/bin/DecoderMos`
`>chmod 777 /awips/fxa/bin/DecoderMRF`
- (3) Change directories and start BUFR MOS decoders
`>cd /data/local/mos_decoder`
`>./bufr_mos_install_as1`
- (4) Exit the AS
`>exit`
- (5) Remove mos_decoder directory
`>cd /data/local`
`>rm -R mos_decoder`

PART 2: Install IFPS10

Part 2 represents the steps necessary to install IFPS10. Part 1 through Part 3 within the install instructions need to be completed on the same day. It is estimated that the Part 1 and Part 2 will take approximately 2 hours to complete. The time required for Part 3 depends on the amount of time it will take your site to verify the IFPS10 upgrade.

NOTE: Those RAP sites who have not previously install IFPS software to support the NDFD test will loose your gridded database during this upgrade. Attachment 1 indicates those sites which did not previously have IFPS test software loaded.

If you are a RAP site, please follow the directions listed under the “RAP Sites (ONLY)” tag. If you are not a RAP site, please follow the instructions under these tags “Non-RAP WFOs”. All of the WFOs need to follow the directions under the “All WFOs” tag. Please refer to Attachment 1 for a list of RAP sites.

1. **Ensure Informix database is running**

a. All WFOs --

- i. Use the following command to verify that Informix is up and running correctly.
`>onstat -g dri`
 - (1) If you get a response this means that the Informix database is running.
 - (2) Using the output from the command above, verify that primary is on

Informix dynamic server 7.31.UC2 – On-Line (Prim)–up 012319 – 168592 kbytes

Data Replication:

<i>Type</i>	<i>state</i>	<i>paired serve</i>	<i>const dr ckpt</i>	<i>id/pg</i>
<i><u>primary</u></i>	<i><u>on</u></i>	<i><u>ONLINE_REP</u></i>	<i>126615/14</i>	<i>28</i>

DR interval 30

DR interval 30

DR interval 30

DR auto 0

DRLOST FOUND /opt/informix/etc/.dr.lostfound

NOTE: If (1) or (2) above are not true, you have a problem and need to start the Informix database before you proceed. Call the NCF for assistance.

2. Install IFPS10

a. All WFOs –

- i. Verify that IFPS and WWA are **NOT** running on any workstation in the office. This includes HP as well as Linux workstations.
- ii. Install the IFPS10. **Note:** RAP sites most likely have completed the first 4 steps below since they have just finished Part 1 of these instructions.
 - (1) Insert the CD labeled “IFPS10” into the CD drive on ds1
 - (2) Log into a workstation as root, then rlogin into the ds
`>rlogin ds1`
 - (3) Start two window. One to run the commands and the other to stop the script files.
 - (4) In the first window, mount the CD drive
`>mount /dev/dsk/c1t2d0 /cdrom`
`>cd /cdrom`
 - (5) In the first window, start the script to log install progress
`>script -a /home/ncfuser/IFPS10install.out`
 - (6) In the first window, run “installIFPS10”
`>./installIFPS10`
 - (7) Wait until the install script is finished, then bring up a second window and stop the script command.
`>ps -ef | grep IFPS10install`
`>kill <process id>`
 where process id is shown in the ‘ps -ef’ command
 - (8) In the second window, review the Prep IFPS10 log
`>cd /home/ncfuser`
`>more IFPS10install.out`
 Look for any errors in the log file. If you have a questions about anything, give the NCF a call. See the Lessons Learned Page <http://www.nws.noaa.gov/mdl/icwf/IFPS10/IFPS10.html> for any followup information associate with IFPS10 install. This should be done prior to continuing with the post install.
 - (9) Unmount & remove the IFPS10 CD
`>cd`
`>umount /cdrom`

3. Restore WWA executables

a. RAP Sites (ONLY) –

- i. Using the wwa_save.tar from Part 1 of these instructions restore the WWA executables into two locations.
`>cd /awips/adapt/ifps/bin`
`>cp /data/adapt/ifps/wwa_save.tar.gz .`
`>gzcat wwa_save.tar.gz | tar xvf -`
`>rm wwa_save.tar.gz`
`>cd hp`
`>cp /data/adapt/ifps/wwa_save.tar.gz .`

```
>gzcat wwa_save.tar.gz | tar xvf -  
>rm wwa_save.tar.gz  
>rm /data/adapt/ifps/wwa_save.tar.gz
```

4. **Install IFPS10 Point Release(s)**

a. All WFOs –

- i. The instructions for install the various point release(s) associate with IFPS10 can be found under the Lessons Learned Page at <http://www.nws.noaa.gov/mdl/icwf/IFPS10/IFPS10.html>. Each of the point release associated with IFPS10 should be install prior to continuing with part Part 3 of these instructions or as the point release is deployed if the IFPS10 install has already been completed. Announcements will be made on the NDFD_team list server about the availability of subsequent IFPS10 Point Releases.

- (1) For the IFPS10.1 instructions, visit the following link
(<http://www.nws.noaa.gov/mdl/icwf/IFPS10/IFPS10.1.html>)
- (2) For the IFPS10.2 instructions, visit the following link
(<http://www.nws.noaa.gov/mdl/icwf/IFPS10/IFPS10.2.html>)

PART 3: Post-Install Instructions for IFPS10

Part 3 represents the steps necessary to verify the IFPS10 install. These steps are not comprehensive but just enough to verify that the basic system functionality is up and running. This part of the install instructions includes a list of items that MDL/FSL recommend to complete immediately after the IFPS10 install. This list is meant to focus the IFPS Focal Point on particular pieces of the software that were changed during the IFPS10 install. Although MDL/FSL attempt to not overwrite the local site configuration of IFPS sometime it is not possible. This part of the install instructions should lead the IFPS Focal Point to verify that site configuration is not lost. This section will closely parallel the information listed in Part 0. If the site preformed the necessary backups of these data, then the verification and any necessary updates should go smoothly at this time. The last part of this section includes a list of items that will need to be configured if the site chooses at a later time.

If you are a RAP site, please follow the directions listed under the “RAP Sites (ONLY)” tag. If you are not a RAP site, please follow the instructions under these tags “Non-RAP WFOs”. All of the WFOs need to follow the directions under the “All WFOs” tag. Please refer to Attachment 1 for a list of RAP sites.

1. Disable ISC of Matrices

a. All WFOs –

- i. The ISC of matrices is not working in IFPS10. As a result, you will need to remove the execute permissions from a script so that ISC of matrices is not activated.

- (1) As “ifps” on ds1
 - >cd /awips/adapt/ifps/bin/linux
 - >chmod -x setup_isc_trigger

2. Verify System Functionality

a. All WFOs –

- i. Verify that the IFPS servers started correctly

- (1) On as1 as ifps

- (a) Check for the Inter-site coordination server

- >ps -ef | grep isc

- (b) If the process is listed, then start the server

- >cd /awips/adapt/ifps/bin/hp

- >./start_AS_ifps_servers ccc

- where ccc is the 3-letter site identification

- (2) On lx1 as ifps

- (a) Check for the IFPS Servers (ifpServer, ifpServerWatcher, sliderParameterServer, and sirssrv)

- >ps -ef | grep ifps

- (b) If any of the above processes are not listed, then start the server(s)

```
>cd /awips/adapt/ifps/bin/linux
```

```
>./start_LX_ifps_servers ccc
```

where ccc is the 3-letter site identification

ii. Verify that the IFPS cron files are running

(1) On ds1 as ifps

(a) Check for the IFPS cron

```
>crontab -l
```

(b) If the cron is not listed, then start it

```
>cd /awips/adapt/ifps/crontab
```

```
>crontab ifps-ccc.crontab
```

where ccc is the 3-letter site identification

(2) On lx1 as ifps

(a) Check for the IFPS cron

```
>crontab -l
```

(b) If the cron is not listed, then start it

```
>cd /awips/adapt/ifps/crontab
```

```
>crontab ifps_mosingest_crontab.sh
```

(3) On lx2 as ifps

(a) Check for the IFPS cron

```
>crontab -l
```

(b) If the cron is not listed, then start it

```
>cd /awips/adapt/ifps/crontab
```

```
>crontab ifps_diskmirror.crontab
```

3. **Verify and Update (as necessary) these Data Files**

a. All WFOs –

i. Verify the environmental variable setting within the ifps-ccc.env file (where ccc is the 3-letter site identification).

ii. Update local versions of the product generation scripts (e.g., zfp.bat) with the ZCS_ID information. This ZCS_ID indicates to the software which type of geography to read from the ifps_ccc database. If this is not set...or is set incorrectly, then the formatter will appear to fail. If you have any of these product generation scripts located within /awips/adapt/ifps/localbin, then you will need to update that version. Please use the corresponding version located in /awips/adapt/ifps/bin/linux to determine exactly how to update your local version. Here is a list of scripts that are affected by this change:

(1) detupdchngs.bat

(2) eshef.bat

(3) fwt.bat

(4) fwx.bat

(5) manual_detupdchngs.bat

(6) noaa_radio.bat

(7) phrstrat.bat

- (8) rcmd_remap.bat
- (9) rdfs.bat
- (10) rdfz.bat
- (11) saf.bat
- (12) shef.bat
- (13) streamsaf.bat
- (14) tsfp.bat
- (15) wafd.bat
- (16) wafp.bat
- (17) wccf.bat
- (18) wcwf.bat
- (19) wglf.bat
- (20) wnsh.bat
- (21) woff.bat
- (22) zfp.bat

4. **New Functionality that could be Configured within IFPS**

a. All WFOs –

- i. Please refer to Section #1 of the IFPS10 Release Notes for more details of new functionality added within IFPS10.

PART 4: Deinstall Instructions for IFPS10

Part 4 represents the steps necessary to deinstall (if necessary) IFPS10. The deinstall is a radical step and should be considered only as a last resort to get the site back up and running with IFPS. As a result, any deinstall of IFPS10 should be carefully coordinated between the site, regional headquarters, Office of Science and Technology, MDL, FSL, and OCCWS.

NOTE: Any configuration completed since the IFPS10 install will be lost upon completing the deinstall. The system will be returned to the state just prior to the IFPS10 install. All forecast digital data will be lost and will need to be recreated.

If you are a RAP site, please follow the directions listed under the “RAP Sites (ONLY)” tag. If you are not a RAP site, please follow the instructions under these tags “Non-RAP WFOs”. All of the WFOs need to follow the directions under the “All WFOs” tag. Please refer to Attachment 1 for a list of RAP sites.

1. **Notify the NCF**
 - a. All WFOs –
 - i. Before starting the deinstall of IFPS10, please notify the NCF so that MDL can be ready to provide assistance.
2. **Restore IFPS to the R5.2.1 version**
 - a. All WFOs –
 - i. Verify that IFPS and WWA are **NOT** running on any workstation in the office. This includes HP as well as Linux workstations.
 - ii. Deinstall the IFPS10.
 - (1) Insert the CD labeled “IFPS10” into the CD drive on ds1
 - (2) Log into a workstation as root, then rlogin into the ds
`>rlogin ds1`
 - (3) Start two window. One to run the commands and the other to stop the script files.
 - (4) In the first window, mount the CD drive
`>mount /dev/dsk/c1t2d0 /cdrom`
`>cd /cdrom`
 - (5) In the first window, start the script to log install progress
`>script -a /home/ncfuser/IFPS10deinstall.out`
 - (6) In the first window, start the script to log install progress
`>script -a /home/ncfuser/IFPS10deinstall.out`
 - (7) In the first window, run the installIFPS10 script with a deinstall option
`>./installIFPS10 -d deinstall`
 - (8) In the second window, stop install log using these commands
`>ps -ef | grep IFPS10deinstall`
`>kill <process id>`

where process id is shown in the 'ps -ef' command

- (9) In the second window, review the deinstall IFPS10 log


```
>cd /home/ncfuser
>more IFPS10deinstall.out
```

 Look for any errors in the log file. If you have a questions about anything, give the NCF a call.

3. **Restore IFPS to the R5.1.2 version**

a. RAP Sites (ONLY) –

- i. Undo the changes associated with the prepIFPS10 script
 - (1) In first window, start the script to log install progress


```
>script -a /home/ncfuser/prepIFPS10deinstall.out
```
 - (2) In first window, run "prepIFPS10" with a deinstall option


```
>./prepIFPS10 -d deinstall
```
 - (3) In the second window, stop install log using these commands


```
>ps -ef | grep prepIFPS10deinstall
>kill <process id>
```

 where process id is shown in the 'ps -ef' command
 - (4) In the second window, review the prepIFPS10 deinstall log


```
>cd /home/ncfuser
>more prepIFPS10deinstall.out
```

 Look for any errors in the log file. If you have a questions about anything, give the NCF a call.
- ii. Undo the change associated with the IFPS part of the R5.2.1 install
 - (1) Restore the information in the following directories


```
/awips/adapt/ifps
/awips/GFESuite
>cd /awips/adapt/ifps
>mv /data/adapt/ifps/ifps512.tar .
>tar xvf ifps512.tar
>cd /awips/GFESuite
>mv /data/adapt/ifps/GFESuite512.tar .
>tar xvf GFESuite512.tar
```
 - (2) See the Lessons Learned page for information on how to restore the ifps_ccc database if a deinstall must take place. The URL for the Lessons Learned page is

<http://www.nws.noaa.gov/mdl/icwf/IFPS10/IFPS10.html>

Attachment 1: List of RAP Sites

If the Site Name in the table below has a “*” beside of it, then this site has not previously install an alpha version of IFPS. As a result, these sites will need to also following instructions under the following tag: “Only RAP sites without a previous test version of IFPS installed”

Site ID	Site Name
AFC	Anchorage, Alaska
AFG	Fairbanks, Alaska
AJK	Juneau, Alaska
AKQ	Wakefield, Virginia*
AMA	Amarillo, Texas*
BOI	Boise, Idaho
BYZ	Billings, Montana
DVN	Quad Cities, Iowa*
EAX	Pleasant Hill, Missouri
EKA	Eureka, California
FFC	Peachtree City, Georgia
FSD	Sioux Falls, South Dakota*
GSP	Greenville, North Carolina
GUM	Guam
HFO	Honolulu, Hawaii
ICT	Wichita, Kansas
JKL	Jackson, Kentucky
MFD	Medford, Oregon
MRX	Morristown, Tennessee
OAX	Omaha, Nebraska
OUN	Norman, Oklahoma

PBZ	Pittsburgh, Pennsylvania*
REV	Reno, Nevada
RLX	Charleston, West Virginia
RNK	Roanoke, Virginia
SGF	Springfield, Missouri
STO	Sacramento, California
TWC	Tucson, Arizona
TOP	Topeka, Kansas
TSA	Tulsa, Oklahoma

Attachment 2: New/Merge/Replace File List for IFPS10

The table below tracks changes in the IFPS data files and database tables associated with the transition from R5.2.1 to IFPS10. The RAP sites will need to refer to the R5.2.1 install instructions for detail of which IFPS data files and database table changes happened between R5.1.2 and R5.2.1.

The following **key** is used in the table.

<u>Merge</u>	Attempt to preserve edited changes to this file/database table while providing any new information needed for IFPS to run in the IFPS10 environment. The IFP focal point should <u>back these files up</u> and <u>confirm that no site changes were lost during the IFPS10.</u>
<u>Replace/Update</u>	This file/database table must be completely replaced in order for IFPS to run in the IFPS10 environment. The IFP focal point should <u>back these files up</u> and <u>be prepared to merge his/her changes into the file once IFPS10 has been installed.</u>
<u>Delete</u>	This file/database table was removed during the R5.2.1 upgrade for IFPS
<u>New</u>	New files/database tables required for IFPS to run in the 5.2.1 environment. There is no additional work required. The IFP focal point may have to customize these files after 5.2.1 is installed in order for a particular application to work correctly. See the Release Notes and 5.2.1 User Guide for more details.

If a particular file/database table is not mentioned in the report below, assume that no changes are occurring during the IFPS10 install.

<u>File/Database Table</u>	<u>Use Key Above</u>
~ifps/Xdefaults	
Config_IFPS	Replace
Config_cat_element	Replace
Config_cntrl_const	Replace
Config_forecasters	Replace
Config_fw_x_prods	New

Config_geo	Replace
Config_progroup	Replace
Config_proinfo	Replace
Config_wildcard	Replace
Ics_ccc	Replace
Igr_ccc	Replace
Master	Replace

NOTE: The replacement of the Xdefault files in IFPS10 was a result of completing the move from HP workstations to the Linux workstations.

~ifps/crontab

ifps-ccc.crontab	Replace
ifps_mosingest_crontab.sh	Replace

NOTE: The replacement of the crontab files in IFPS10 was a result of completing the move from HP workstations to the Linux workstations.

~ifps/localbin

ifps-ccc.env	Merge
--------------	-------

NOTE: The following environmental variables were added to this environmental file in IFPS10:

- MUTABLE_DB
- USE_PREVIOUS_FWX_COMBO_MAP
- EXECUTE_FWX
- FWT_CTY
- FWT_ST
- FWF_CTY
- FWF_ST
- FWF_WRPIL
- FWF_PIL
- FWT_WRPIL
- FWT_PIL

~ifps/data

dfmlabels.dat	New
---------------	-----

fixit_failover.cfg	Replace
fixit_main.cfg	Replace
fwx_mask.00	New
fwx_mask.12	New
ifps_edit.cfg	Replace
ifps_fndtn.cfg	Replace
ifps_main.cfg	Replace
ifps_prod_int.cfg	Replace
mask.00	Replace
mask.12	Replace
public_checks.ccc	Replace
template_fwf.ccc	New
template_fwt.ccc	New
~ifps/data/config_bm/fire.xpm	New
ifps_ccc database	
cat_phrases	New
cntrl_const	Merge
const_descr	Update
dfm_layout	Update
dfm_template	Update
geo_groups_descr	Merge
grid2parms	Update
grid_attributes	Update
map_associations	Update
mexwx_data	Update

period_layout	Update
product_groups	Merge
wwa_ccc database	
recommendations	Merge

The following are some of the scripts in /awips/adapt/ifps/bin/hp and /awips/adapt/ifps/bin/linux that have changed with the IFPS10 install. If the IFP focal point has made any adjustments to these script within /awips/adapt/ifps/localbin, they will need to be **merged**.

- Under /awips/adapt/ifps/bin/hp:
 - new_fixit.bat
 - run_tsfp.bat
- Under /awips/adapt/ifps/bin/linux:
 - detupdchngs.bat
 - manual_detupdchngs.bat
 - eshef.bat
 - rdfs.bat
 - rdfz.bat
 - grib.bat
 - image.bat
 - shef.bat
 - wcwf.bat
 - wglf.bat
 - wnsh.bat
 - woff.bat
 - phrstrat.bat
 - grib.bat
 - rcmd_remap.bat
 - saf.bat
 - streamsaf.bat
 - tsfp.bat
 - wafd.bat
 - wafp.bat
 - wccf.bat
 - zfp.bat